

PIE Workshop #5, 04/04/2016

Some Slides from Joint Meeting with Council City of Edina GHG Reduction

Glacier? National Park, MT

Shepard Glacier



Grinnell Glacier

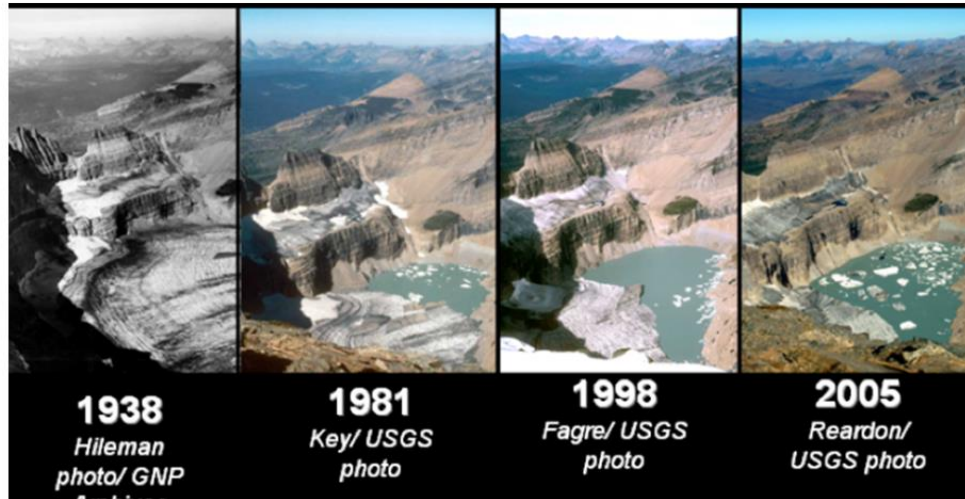
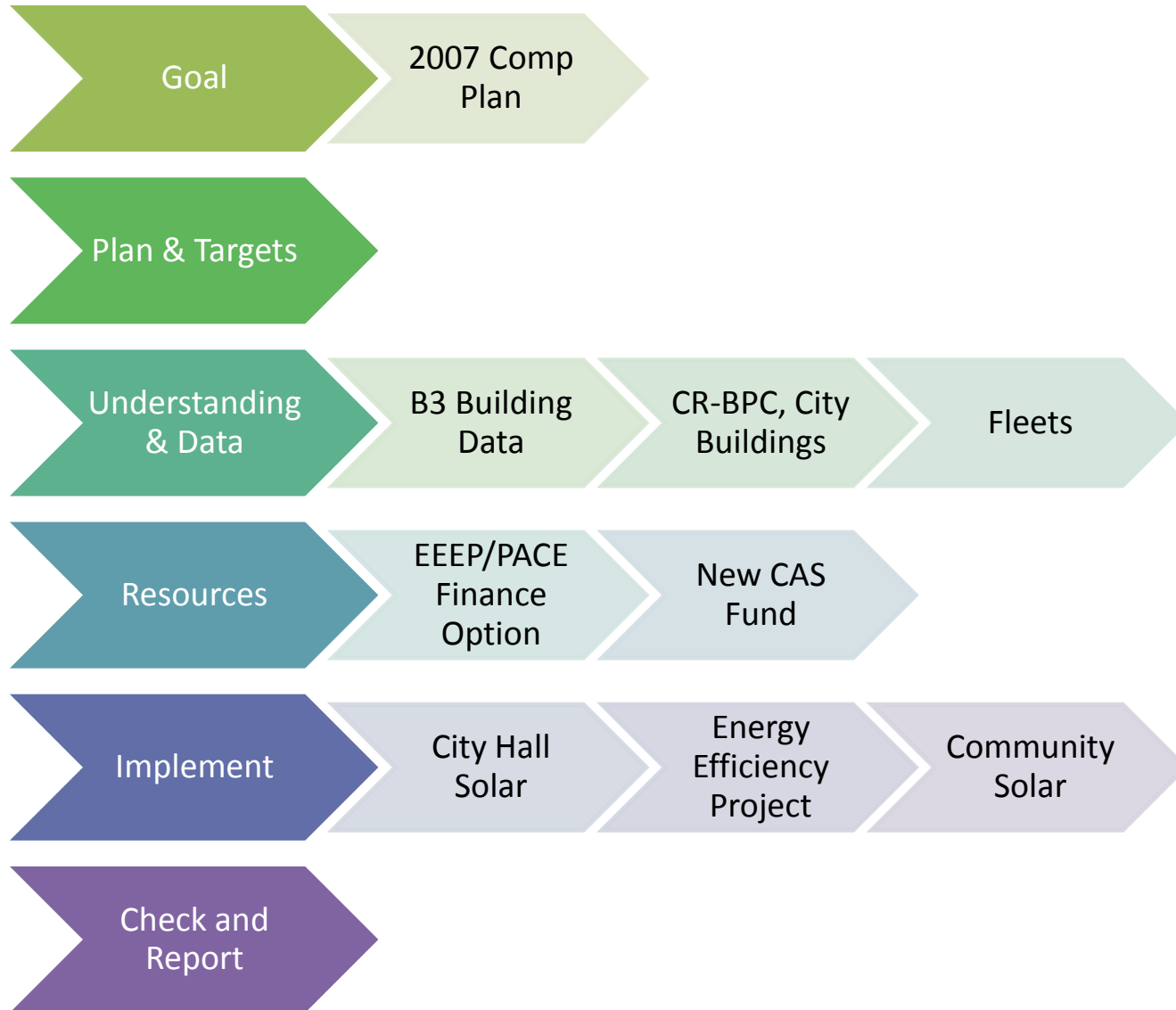


Photo credit:
USGC Repeat
Photography Project

Edina Green House Gas Reduction History

30% by 2025



Greenhouse Gas Reduction

30% by 2025

EEC Recommendation, On Going

- EEC work plan GHG reduction is # 1 priority for the following 3 sectors:
 - City Operations
 - Resident
 - Business
- Action 1 Conservation and Sustainability Fund Follow Through

Greenhouse Gas Reduction

30% 2025

EEC Seeking Council's Approval

- **Action 2 Partners in Energy Follow Through**
 - **Identify baseline data for all 3 sectors**
 - **Baseline data for each sector to be establish to quantify actions toward reduction of GHG.**
 - Electricity, Xcel, done. Pls share the data
 - Gas, CPE? Timeline?
 - **Propose a plan for each sector**
 - **Substantial action plan for each sector to make a dent/move the needle, pie? Timeline? 04/04/2016**

Note: Sectors are: Business, Resident, City operations

Schools operation is separate from city, it is going to a partnership

Based on the Xcel Data (So Far)

Ranking of GHG Producers

- # 1 Electricity is at the top on producing GHG
 - Need to get data for each sector, pie? Timeline?
- #2 Gas
 - How and who can get data from CPE?
- #3 Transportation
 - Depends on regional and other cities to create more public transportation

Sectors Top GHG Producer

Among sectors: Business, resident, city operations

- # 1 Business, the top consumer
 - Top % is 20% of businesses, pie
- #2 Resident
 - We have top % of resident neighborhoods, pie
- #3 City operation
 - We have list of top city operations list, city

Making the Dent/Moving Needle, Towards 30% GHG Reduction by 2025

Therefore, to make the dent on the GHG consumption and to be able to reduce GHG, it seems obvious we need to follow the following list.

- #1 business, top % consumers
- #2 city operation, top % operations (To make a good role model)
- # 3 residents, top % consumers
- #4 Schools to partner and learn/leverage each others path on reducing GHG, 30% by 2025
 - School is one of the good vehicles for campaigning and getting the info out to resident

Making the Dent/Moving Needle, Towards 30% GHG Reduction by 2025

- The #1 item that makes a dent in all above sectors is to subscribe to the renewable energy through Xcel program and other renewable energies if available.
- #2 Efficiency
- #3 Along with the above actions some other actions need to be pursued.
 - Reduction of solid waste
 - Quality of water
 - Transportation

5th Annual Edina Environmental Forum



5th-Annual
Edina
Environmental
Forum

AN EDINA
DIALOGUE

A Smart Energy Future

Will Edina Lead the Way?

Thursday, April 14
Flick Auditorium, Edina High School
Enter Door No. 3

6-7 p.m. Action Resource Fair and Refreshments
7 p.m. Program

Keynote Speaker
Dr. Elizabeth Wilson,
U of M Professor of Energy and Environmental Policy and Law

Featuring
Architect Rick Carter, LHB, Inc.
Director Lissa Pawlisch, U of M Clean Energy Resource Teams

 **ENERGY & ENVIRONMENT
COMMISSION**

Biking & Carpooling Encouraged • FREE Admission
EdinaGoGreen.org

Appendix Follows:

Partners in Energy Committee (PiE) Energy Vision

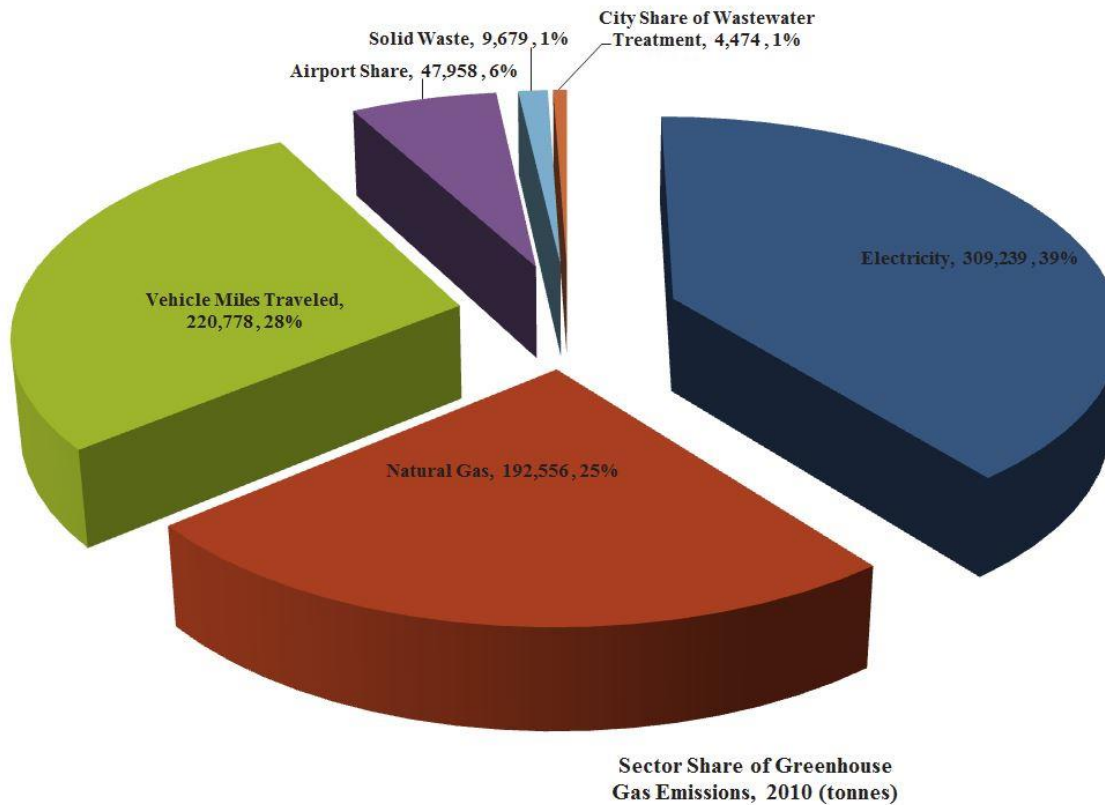
Edina's residents, schools, businesses, and government will successfully reduce the community's greenhouse gas emissions by 30% by the year 2025, through strategies and actions that are sustainable, practical, and measurable.

30% by 2025

GHG Examples for 10 year 30% Reduction Goal

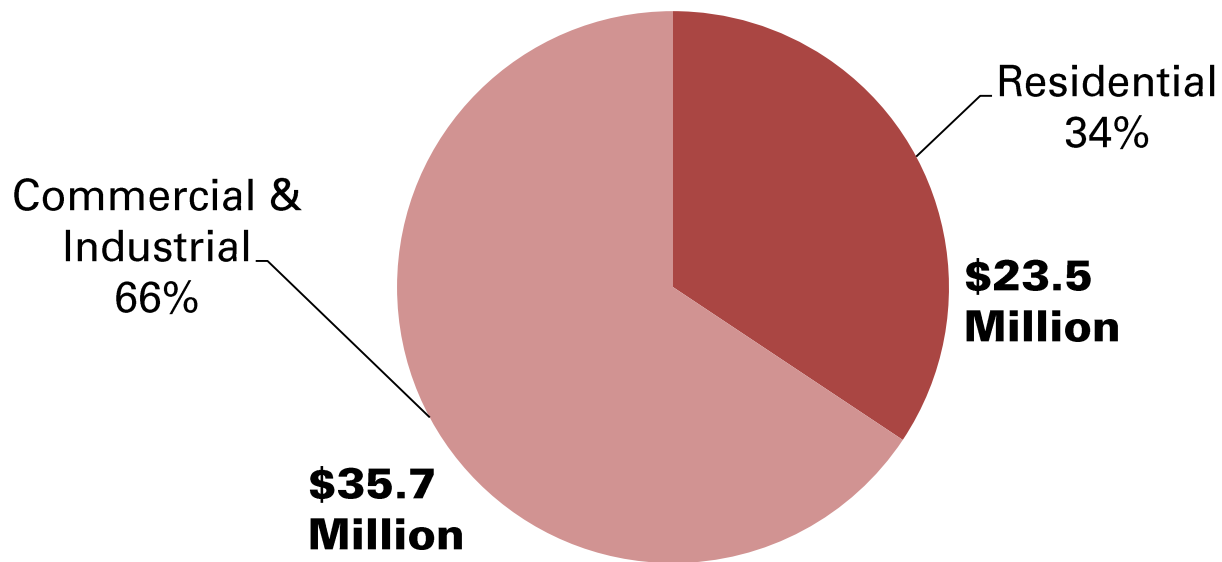
30% by 2025

Community Scale



Community Electricity Use

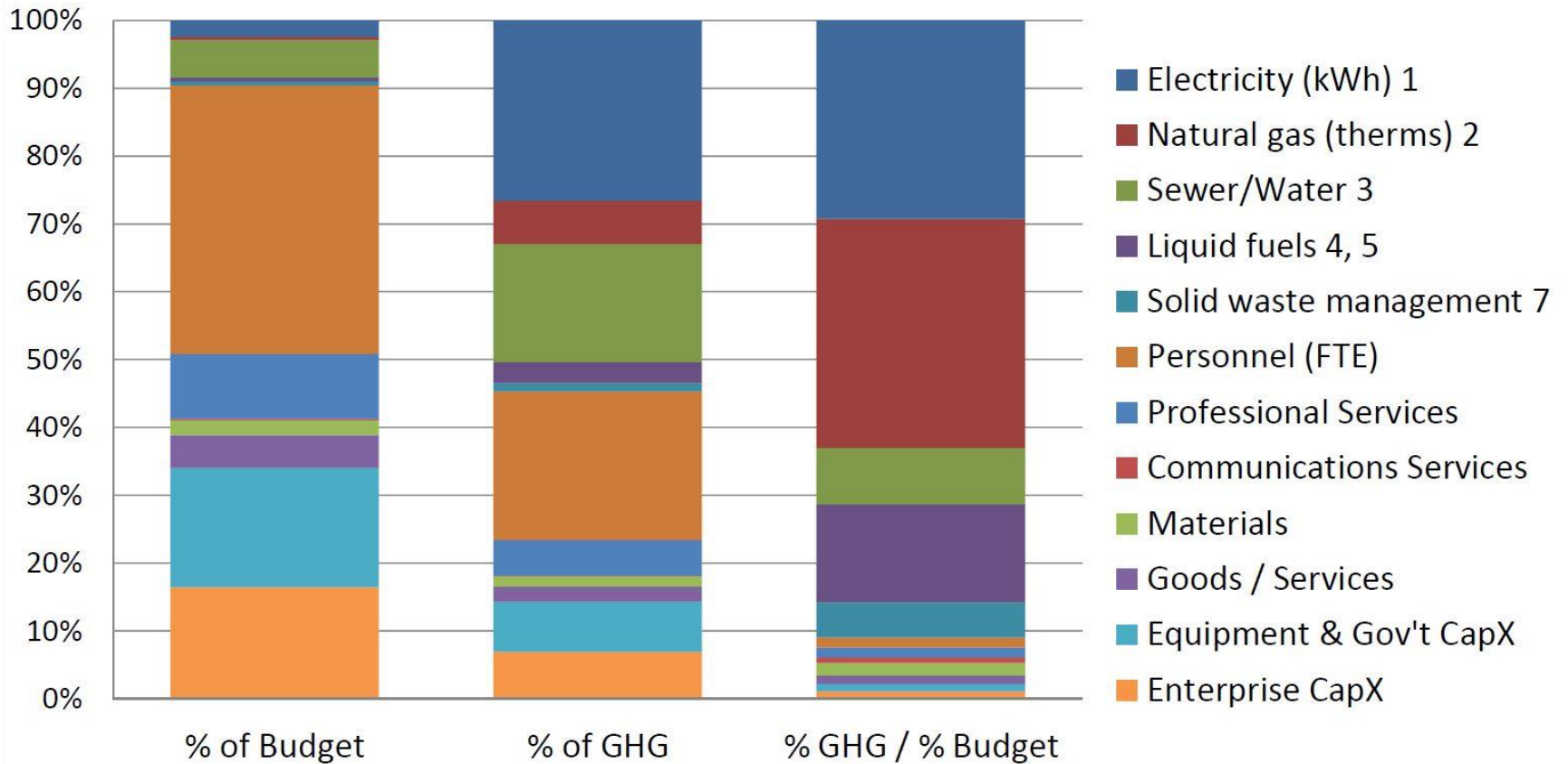
2014 Total Electricity Use 584 million kWh



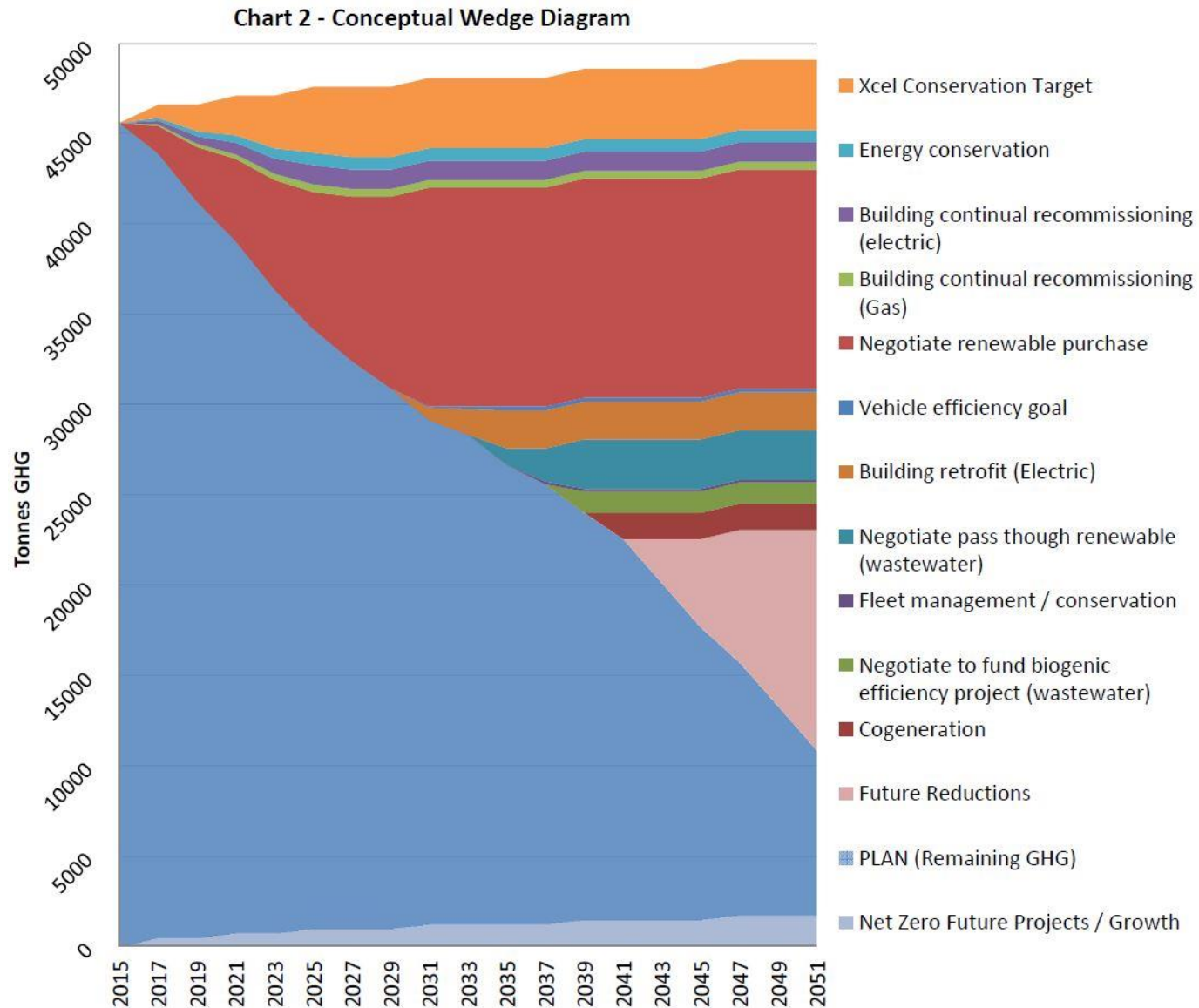
The CITY of
EDINA

Municipal Operations Scale

Chart 1: City of Edina / Rough Greenhouse Gas Estimate By Major Catagory of Expense



Municipal Operations Scale



Scale of GHG Annual Emissions

- 30-90 Tonnes - Individual household
- 30,000-50,000 Tonnes – Municipal Operations
- 700,000-900,000 Tonnes – Community Wide
- 8000 Tonnes – Edina Share of MetC Sewer
- 3600 Tonnes – Braemar Complex
- 1200 Tonnes – City Hall
- 1100 Tonnes – Edinburgh

Scale of GHG Offset @ 30%

- 30% Offset for an Individual household wide is \$4-10/month for Windsource
- 30% Reduction for Municipal Operations is approximately \$200,000/year for Windsource
- Appx 15% of overall Reduction and 30% of electrical Community Wide GHG will be achieved by Xcel by 2025 through proposed power plan under consideration at PUC.

Scale of GHG Reductions @ 30%

- 30% Reduction for an Individual household wide is approximately equivalent to current car and furnace use.
- 30% Reduction for Municipal Operations is approximately equivalent to current all buildings or all utility operations.
- 30% Reduction Community Wide is approximately equivalent to all current vehicle travel.

Individual Scale

Minneapolis, MN - Household Consumption Inventory 2010 emissions breakdown from major sectors

<http://www.minneapolismn.gov/www/groups/public/@citycoordinator/documents/webcontent/wcms1p-092812.pdf>

